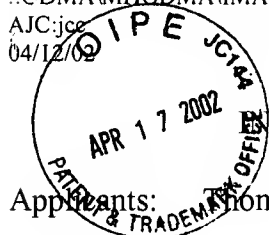


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## THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas Tuschl, Phillip D. Zamore, Phillip A. Sharp and David P. Bartel

Application No.: 09/821,832

Group Art Unit: 1645

Filed: March 30, 2001

Examiner: Not Assigned

Title: RNA Sequence-Specific Mediators of RNA Interference

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on	4.12.02
Date	Signature
Jenine Crump	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENTAssistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:☐ a Statement under 37 CFR 1.97(e), as checked below, or☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:☐ a Statement under 37 CFR 1.97(e), as checked below, and☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
- ☒ Copies of the cited references are enclosed (AA; AR-AZ; AR2-AZ2; AR3-AZ3; AR4-AZ4; AR5-AZ5; and AR6-AT6).
- ☐ Copies of cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
- ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
- ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
  - ☐ the explanation provided in the Specification.
  - ☐ submission of the enclosed International Search Report.
  - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
  - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

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Examiner

\_\_\_\_\_  
Date

☐ A copy of each above-cited application, including the current claims, is enclosed.

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

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Concord, MA 01742-9133

Dated:

*April 12, 2002*

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ATTORNEY DOCKET NO.  
0399.2008-002

APPLICATION NO.  
09/821,832

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

APPLICANT  
Thomas Tuschl, et al.

APR 17 2002

April 12, 2002

FILING DATE  
March 30, 2001

GROUP  
1645

(See several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA	5,908,779	01-JUN-1999	Carmichael, et al.	435	325	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Fire, A., et al., "Potent and Specific Genetic Interference By Double-Stranded RNA in <i>Caenorhabditis elegans</i> ," <i>Nature</i> 391:806-811 (February 19, 1998)
	AS	Tuschl, T., et al., "Targeted mRNA Degradation By Double-Stranded RNA In Vitro," <i>Genes &amp; Development</i> 13:3191-3197 (1999)
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AX	Clemens, M.J. and Williams, B.R.G., "Inhibition of Cell-Free Protein Synthesis by pppA <sup>2</sup> p <sup>5</sup> A <sup>2</sup> p <sup>5</sup> A: a Novel Oligonucleotide Synthesized by Interferon Treated L Cell Extracts," <i>Cell</i> 13:565-572 (March 1978)
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AZ	Zhou, A., et al., "Expression Cloning of 2-5A-Dependent RNAase: A Uniquely Regulated Mediator of Interferon Action," <i>Cell</i> 72:753-765 (March 12, 1993)
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AU2	Hamilton, A. J. and Baulcombe, D. C., "A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants," <i>Science</i> 286:950-952 (October 1999)
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AR6	Tabara, H. et al., "RNAi in <i>C. elegans</i> : Soaking in the Genome Sequence," <i>Science</i> 282: 430-431 (October 16, 1998)
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